

IR 4.0 DIGITAL TRANSFORMATION



Industry 4.0—also called the Fourth Industrial Revolution or 4IR—is the next phase in the digitization of the manufacturing sector, driven by disruptive trends including the rise of data and connectivity, analytics, human-machine interaction, and improvements in robotics. Digital transformation describes the process of integrating technology throughout and across an industrial organization to fundamentally change the way it operates internally and presents its products or services externally. **Industry 4.0** is a related concept, initiated in Germany as **Industrie 4.0**, that is associated with smart manufacturing and the fourth industrial revolution.

DATE: 16-17 Jun 2025

VENUE: MEF ACADEMY TRAINING CENTER (PJ)

PRICE: RM 1,900 per-pax *(inclusive of 8% SST)*

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OBJECTIVE

Develop an understanding of basic digital concepts, tools, and technologies to effectively operate in a digitally-driven environment. Gain a broad understanding of the interdisciplinary nature of IR4.0, including the integration of technologies like artificial intelligence, Internet of Things (IoT), robotics, and data science across various industries. Foster an adaptive mindset and the ability to quickly learn and apply new technologies as they emerge, enabling individuals to stay relevant in a dynamic digital ecosystem. Develop awareness and skills in cybersecurity to protect digital assets and sensitive information in an increasingly interconnected and digital world. Understand the ethical implications of technology use, including privacy, security, and the responsible development and deployment of technologies in society. Cultivate critical thinking skills to analyze complex situations, solve problems, and make informed decisions, especially in the context of technology-driven challenges and opportunities. Instill a commitment to lifelong learning and continuous skill development to keep pace with the evolving technological landscape throughout one's career.

- Target Audience**
- Marketing executives and managers:
 - Business owners and entrepreneurs
 - Digital marketing professionals:
 - Individuals IT expert interested in digital transformation:
 - Directors
 - IT managers:

- Methodology**
- Lectures
 - Individuals and group discussions
 - Presentation
 - On-Line interactive activities
 - Hands-on training with PCs

- Duration**
- 2 days
 - 9:00am – 5:00pm

COURSE OUTLINE	
TIME	DAY 1
8.30am	Registration
9.00am	Course Introduction / Ice Breaking
9.30am	MODULE 1 : Introduction to Artificial Intelligence (AI)
10.45am	Coffee Break
11.00am	MODULE 2 : Fundamentals of Natural Language Processing (NLP)
12.00pm	MODULE 3 : Essentials of Internet of Things (IoT)
1.00pm	Lunch Break
2.00pm	MODULE 4 : Smart Technology - Components and Requirements
3.30pm	Tea Break
3.45pm	MODULE 5 : Telecommunications & Networking
4.45pm	Summary / Q&A Session
5.00pm	Session End
TIME	DAY 2
8.30am	Registration
9.00am	Refresh Day 1
9.30am	MODULE 6 : Definitions & Framework for IR4.0 IoT & Digital Era
10.45am	Coffee Break
11.00am	MODULE 7 : Intelligent Systems & Decision Making
12.00pm	MODULE 8 : Implementing Smart Systems
1.00pm	Lunch Break
2.00pm	MODULE 9 : Human-Machine Interface
3.30pm	Tea Break
3.45pm	MODULE 10 :Core Concepts in Cybersecurity
4.45pm	Summary / Q&A Session
5.00pm	Session End

TRAINER PROFILE

- Ir. Dr. Saravanan Nathan @ Dr Patrick is a Solution Consultant as well as the HRDC certified and accredited trainer under the Ministry of Human Resources. He regularly conducts trainings for corporate industries as well as for the governmental agencies and GLC's such as Ministry of National Unity, Social Security Organization (PERKESO), MADANI Programs and others. For the past 20 years, he has been delivering technical consultancy and rendered his service as an adjunct academia in the area of Engineering and Technology in few universities.
- He has also written numerous papers which have been published in journals and has attended conferences at both local and international levels. His book on Strategic Information System Planning has been published and being used as course guide by university students. He is also supervising PhD students in the field of technology and engineering and lecturing modules at doctorate level.
- He is an active member of the Institute of Engineers Malaysia (IEM) and the Board of Engineers Malaysia (BEM). He has been awarded Professional Engineer status since 2009 under the Electronics division.
- He has completed his Ph.D. in the field of Technology Management in Universiti Sains Malaysia (USM), Penang, Malaysia and has been serving as research consultants for special projects under government of Malaysia as well as independent projects. He has completed his degree in law from Universiti Malaya recently and has been active in legal advocacy and research as well.

